## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/014628

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> F16C29/08				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SE	EARCHED			
Minimum docui Int.Cl	nentation searched (classification system followed by cl F16C29/06-29/08	assification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUME	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
GY V	JP 6-346919 A (NSK Ltd.), 20 December, 1994 (20.12.94), & US 5494354 A		1-5,7-8 6	
Y	JP 9-317764 A (NSK Ltd.), 09 December, 1997 (09.12.97), Figs. 5, 7 (Family: none)		6	
А	Microfilm of the specification annexed to the request of Jap Model Application No. 29627/1 No. 124328/1992) (NSK Ltd.), 12 November, 1992 (12.11.92), (Family: none)	panese Utility 1991(Laid-open	1-8	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 06 January, 2005 (06.01.05)		Date of mailing of the international search report 25 January, 2005 (25.01.05)		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Erasimila No.		Telephone No.		

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/014628

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 91498/1992(Laid-open No. 51548/1994) (Nippon Thompson Co., Ltd.), 15 July, 1994 (15.07.94), (Family: none)	1-8
A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 91497/1992 (Laid-open No. 51547/1994) (Nippon Thompson Cc., Ltd.), 15 July, 1994 (15.07.94), (Family: none)	1-8
B	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 28403/1990(Laid-open No. 118317/1991) (NSK Ltd.), 06 December, 1991 (06.12.91), (Family: none)	1-8
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Mcdel Application No. 61970/1990(Laid-open No. 19918/1992) (NSK Ltd.), 19 February, 1992 (19.02.92), (Family: none)	1-8